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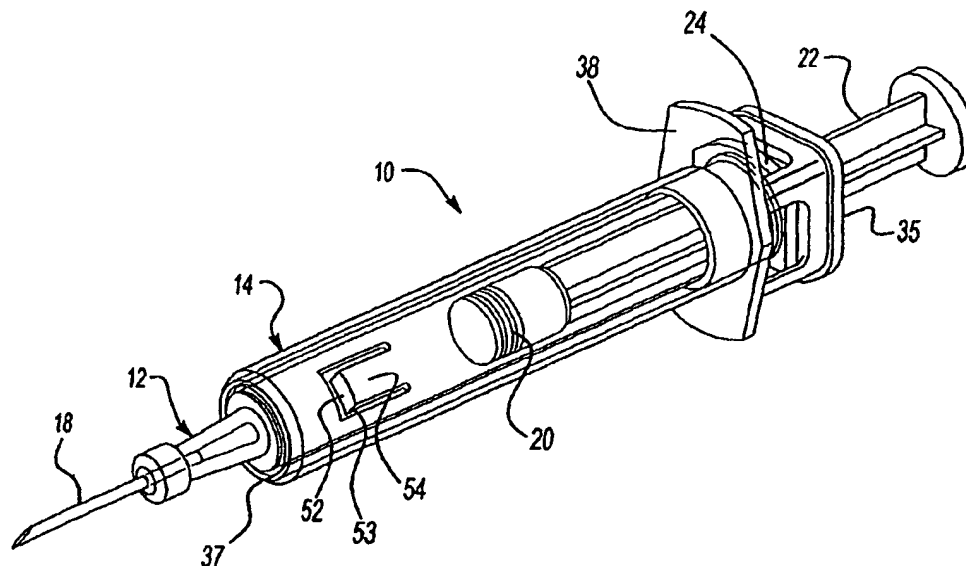
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(54) Title: SAFETY SHIELD SYSTEM FOR PREFILLED SYRINGES



(57) Abstract: A medical injection device (10) is provided which includes a shield system (14) and a syringe (12) which may be coupled to the shield system. The shield system includes a syringe holder (26), a shield (28) telescopically received in the holder and slidably coupled to the holder and an end fitting (32) which isolates the syringe flange from the holder, preventing damage to the flange. A spring (30) resiliently urges the shield from a retracted position to an extended position. Stop members are provided adjacent the distal end of the holder and the proximal end of the shield for maintaining the shield in the retracted position. Axial movement of the syringe with respect to the holder causes disengagement of the stop members, allowing the spring to move the shield to the extended position. Detents (52) are provided on the holder for maintaining the shield in the extended position.



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Int. Application No

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 966 983 A (BECTON DICKINSON CO) 29 December 1999 (1999-12-29) cited in the application page 1, column 1, line 1 -page 6, column 9, line 3; figures 1-11	1,5,6, 10-14, 19,22
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Y	EP 0 845 275 A (TOP KK ;SEIKAGAKU KOGYO CO LTD (JP)) 3 June 1998 (1998-06-03)	1,5,6, 10-14, 19,22
A	the whole document --- -/--	3,17,20



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	<p>US 6 033 387 A (BRUNEL MARC) 7 March 2000 (2000-03-07) column 10, line 3-15; figure 1</p> <p>----</p>	1,11,19
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A	<p>US 4 598 820 A (MURPHY ROBERT H) 8 July 1986 (1986-07-08) abstract</p> <p>-----</p>	4,18,21

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